	Application No.	Applicant(s)
	10/705,912	LEE, BYUNG TAE
Notice of Allowability	Examiner	Art Unit
	Elizabeth Keaney	2882
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate common IGHTS. This application is so	n this application. If not included unication will be mailed in due course. THIS
1. 🔀 This communication is responsive to application filed 13 N	ovember 2003.	
2. The allowed claim(s) is/are <u>1-24</u> .		
3. \boxtimes The drawings filed on <u>13 November 2003</u> are accepted by	the Examiner.	
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application	on No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file IENT of this application.	e a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EX es reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date 	son's Patent Drawing Review	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37 CF	he drawings in the front (not the back) of FR 1.121(d).
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	SIT OF BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview S	formal Patent Application (PTO-152) ummary (PTO-413), /Mail Date
 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 11/13/02 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 		/Mail Date Amendment/Comment Statement of Reasons for Allowance

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DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Allowable Subject Matter

Claims 1-24 are allowed over the prior art of record.

The following is an examiner's statement of reasons for allowance:

Re claims 1-16: The best prior art of record discloses a cathode ray tube comprising: a front panel, a fluorescent screen, a funnel, an electron gun, a deflection yoke, a holder and a ferrite core. However, the prior art fails to teach or fairly suggest a cathode ray tube wherein the ferrite core is exterior to the vertical deflection coils and a cross section of the portion of the ferrite core proximate to the screen part of the funnel includes diagonal regions, horizontal regions and vertical regions and wherein the thickness of the diagonal regions is less than the thickness of the horizontal and vertical regions, as claimed in claim 1. Claims 2-16 are allowable by virtue of their dependency.

Re claims 17-13: The best prior art of record discloses a cathode ray tube comprising: a front panel, a fluorescent screen, a funnel, an electron gun, a deflection yoke, a holder and a ferrite core. However, the prior art fails to teach or fairly suggest a cathode ray tube comprising a ferrite core exterior to the vertical deflection coils, wherein the exterior cross section of the portion of the ferrite core proximate to the neck part of the funnel is substantially circular, an interior cross section of the portion of the

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core proximate to the neck part is substantially circular, an exterior cross section of the ferrite core proximate to the screen part of the funnel is substantially circular, an interior cross section of the ferrite core proximate the screen part is non-circular, and wherein the interior cross section of the ferrite core proximate to the screen part includes a diagonally arranged curvature, a horizontally arranged curvature, and a vertically arranged curvature, wherein the diagonally arranged curvature has a radius that is less than a radius of the horizontally and vertically arranged curvatures, as claimed in claim 17. Claims 18-23 are allowable by virtue of their dependency.

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Re claim 24: The best prior art of record discloses a deflection yoke for a cathode ray tube comprising a ferrite core. However, the prior art fails to teach or fairly suggest the ferrite core having a first end, a second end opposing the first end, an interior surface and an exterior surface, wherein a portion of the interior surface proximate the first end has a cross section that is non-circular and wherein a portion of the exterior surface proximate the first end has a cross section that is circular; and a plurality of vertical and horizontal deflection coils within the ferrite core, wherein a portion of the plurality of at least one of the vertical and horizontal deflection coils proximate the first end has a cross section that is rectangular, as claimed in claim 24.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- US Patent 6,914,505 teaches a ferrite core having a diagonal thickness smaller than a vertical and horizontal thickness but the vertical coils are bound around the outer portion of the core.
- US Patent 6,380,698 teaches a first end of the ferrite core having an
 interior that is non-circular, an exterior that is circular, however the cross
 section of the vertical and horizontal coils are not rectangular.
- US Patent 6,696,907 teaches a first end of a ferrite core having a circular interior and a circular exterior and a second side having a rectangular interior and a rectangular exterior.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth Keaney whose telephone number is (571)272-2489. The examiner can normally be reached on Monday, Tuesday, Thursday, Friday 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ed Glick can be reached on (571)272-2490. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

emk

SUPERVISORY PATENT EXAMINER